Name(s) of Risk Team Members: R. Karol, J. Searing (ESD), A. Zaltsman, G. Murdock, F. Scheifele, R. Zaharatos, W. Anderson, T. Hayes	Point Value → Parameter ↓	1	2	3	4	5
Job Title: Emergency Response - Fire in Building 929 RF Power Supply Job Number or Job Identifier: JRA 14a-05	Frequency (B)	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
Job Description: Response to Actual Fire in an RF power supply located in B929	Severity (C)	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
Training and Procedures List (optional): C-AD OPM Chapter 3 Approved by: E. Lessard Date: 3-14-05 Rev. #:0	Likelihood (D)	Extremely Unlikely	Unlikely	Possible	Probable	Multiple

Stressors (if applicable, please list all):	Reason for Revision (if applicable):	Comments: This was done after an actual fire event to document risks and corrective actions. See Critique CR-CA-2004-0016. B929 is not normally occupied.
Smoke causing breathing difficulty and reduced visibility, possible electrical shock, rushing and hurrying	Annual Review	

			Before Additional Controls						After Additional Controls						
Job Step / Task	Hazard	Control(s)	**Stressors Y/N**	**# of People A**	**Frequency B**	**Severity C**	**Likelihood D**	**Risk* AxBxCxD**	Control(s) Added to Reduce Risk	**Stressors Y/N**	**# of People A**	**Frequency B**	**Severity C**	**Likelihood D**	**Risk* AxBxCxD**	% Risk Reduction
CAS Watch responds to fire alarm at Building 928 via truck	Falls on same level going to and leaving truck	Housekeeping, training, awareness of surroundings	Y	2	2	1	3	12								
CAS Watch responds to fire alarm at Building 928 via truck	Road accident, may exceed speed limit	Driving carefully, seatbelts, training, familiar with roads	Y	2	2	2	3	24								
BNL Fire/Rescue (F/R) responds to fire alarm at Building 928	Falls on same level going to and leaving F/R trucks	Housekeeping, training, awareness of surroundings	Y	4	3	1	3	36								
BNL Fire/Rescue responds to fire alarm at Building 928	Road accident, may exceed speed limit	Driving carefully, seatbelts, training, familiar with roads, sirens	Y	4	3	2	2	48								
Enter B929 to investigate	Smoke, possible oxygen deficiency, inhalation of hazardous materials such as PCBs or burned plastics	Use senses to determine if safe to enter, F/R use of SCBA, training, Fire Run Cards to determine potential hazards, non-emergency personnel leave building following fire alarm	Y	2	2	5	3	60	Added information to C-A-OPM 3.0, Local Emergency Plan for Collider-Accelerator Department, warning of carbon monoxide, PCBs and burned plastics hazardous materials that may not be sensed by entering responders.	Y	2	2	5	2	40	50%

Enter B929 to investigate	Heat	Use of senses, approach area slowly, F/R use of PPE, training	Y	2	2	2	3	24									
Enter B929 to investigate	Fall on same level due to smoke reducing visibility	Knowledge of area, planning entry, approach area slowly, non-emergency personnel leave building following fire alarm	Y	2	2	2	3	24									
Manually suppress fire	Bodily reaction – injuries resulting from bending, climbing, loss of balance and slipping without falling	Proper lift techniques of hoses or extinguishers, training	Y	2	2	2	2	16									
Manually suppress fire	Electric shock	Trip power before manual suppression, knowledge of electrical distribution and crash buttons, use of Plant Engineering to assist in de-energizing power, Fire Run Cards to determine hazards, non-emergency personnel leave building following fire alarm	Y	2	2	5	3	60	Improving the postings of crash buttons in the area (See Critique CR-CA-2004-0016)	Y	2	2	5	2	40	50%
Manually suppress fire	Burns	Approach area with caution, F/R use of fireman PPE, training and experience, non-emergency personnel leave building following fire alarm	Y	2	2	3	2	24									
Manually suppress fire	Oxygen deficiency due to fire	Multiple personnel in area, F/R use of gas measurement instrument, F/R use of SCBAs, EMTs, training and experience, non-emergency personnel leave building following fire alarm	Y	2	2	4	3	48	Added information to C-A-OPM 3.0, Local Emergency Plan for Collider-Accelerator Department, warning of carbon monoxide, PCBs and burned plastics hazardous materials that may not be sensed by entering responders.	Y	2	2	4	2	32	33%
Manually suppress fire	Inhalation of hazardous materials	Knowledge of area hazards, F/R use of SCBA	Y	2	2	3	3	36	Added information to C-A-OPM 3.0, Local Emergency Plan for Collider-Accelerator Department, warning of carbon monoxide, PCBs and burned plastics hazardous materials that may not be sensed by entering responders.	Y	2	2	3	2	24	33%

Further Description of Controls Added to Reduce Risk:
Added information to C-A-OPM 3.0: 1) Once emergency phase of fire is over, proper work planning is to be used for cleanup and repairs. This includes sampling the atmosphere for toxic and hazardous materials, safe cleanup methods following CDC guidelines and discussing hazards with cleanup workers.

*Risk:	0 to 20	21 to 40	41-60	61 to 80	81 or greater
	Negligible	Acceptable	Moderate	Substantial	Intolerable